

Briggs **FLAMEBLOCK™** FRMDF

PRODUCT DATA SHEET 28/10/09

Product Description and Fire Retardancy

Briggs FLAMEBLOCK™ FRMDF is a high density MDF with a fine sanded surface, a screwable core and can be identified by its distinctively pink colour. It has excellent fire retardant properties, and in the *raw/painted* form is certified to reach **BCA Fire Hazard Group 1***.

Veneered with a very wide range of species**, Briggs FLAMEBLOCK™ FRMDF is certified to reach **BCA Fire Hazard Group 2**. Additionally, FLAMEBLOCK™ is PEFC certified to be from sustainably managed forests and has low formaldehyde emissions (E1). FLAMEBLOCK™ maintains its fire retardant properties after cutting, machining and sanding, and does not require any special edge treatment in order to maintain these properties.

* **BCA Group 1 Fire Hazard Certificate** for RAW/PAINTED FLAMEBLOCK soon available at www.briggs.com.au

** **BCA Group 2 Fire Hazard Certificates** with species/veneer listings soon available at www.briggs.com.au -

- Group 2 TrueGrain on FLAMEBLOCK - EWFA Certificate SFC 23754A-00
- Group 2 Natural Timber Veneer on FLAMEBLOCK - EWFA Certificate SFC 23754B-00
- Group 2 eco-cert on FLAMEBLOCK - EWFA Certificate SFC 23754C-00

Our Group 2 Certificates only apply if Briggs FLAMEBLOCK™ FRMDF and Briggs' veneers are used, and are not transferable to other supplier's veneers or substrates.



Applications

FLAMEBLOCK™ FRMDF should *not* be used in external or structural applications nor used or stored exposed to water, damp or high humidity areas such as showers. It should not be used in close proximity to fire places or heaters. It is suitable for use in interior wall and ceiling paneling, cabinetry and furniture where high fire resistance is required and can be surfaced with timber veneer, paint, paper, vinyl, foils, High Pressure Melamine and Low Pressure Melamine Laminates. Either raw, painted or surfaced with materials such as veneer, it can be slotted or drilled to make acoustic panel products. The board will expand or shrink under variable humidity conditions. Use suitable sawing, milling and drilling tools. The fire retardant materials and dyes in the board may in exceptional cases affect certain glues or paints. Always perform a test before use.

Storage

Panels must be stacked flat, on a pallet or using a sufficient number of cross members (gluts or bearers). The space between the cross members needs to be close enough to prevent the boards from bowing and the size of the cross members sufficient to enable easy and safe access for the fork-lift pick-up of packs. Cross members should all measure the same height and line up in the case of stacks placed on top of each other. The panel packs must be stacked onto a smooth, clean, dry underlayer cover-board which has to be placed at a distance of at least 10 cm from the ground and walls. Panels should not be stored vertically, unless ground contact can be avoided. If vertical storage is undertaken, the bowing of panels must be prevented by avoiding any storage angle apart from near to exactly vertical.

The board will expand or shrink under variable humidity conditions. The recommended environmental climate to store MDF is a temperature from 12°C up to 20°C and a relative air humidity of 50% to 60%, with a maximum of 65% for a few weeks per year. If these storage conditions cannot be met, such as in most parts of coastal Australia, the panels should be covered (e.g. plastic wrapping). Attention must be paid to prevent the formation of possible moisture condensation on the inner side of the covering. To prevent this, a breathable cover is recommended (e.g. canvas)

Handling and Transport

Attention must be paid to the prevention of damage to the edges and the sides of panels when handling. The best way to move the stacks is via a forklift. When being transported, the panels must be protected against rain and splashing water off the road. If such precautions are not taken, this can lead to irreversible damage to the exposed surface and swelling of the edges.

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Availability, Dimensions and Thicknesses

| Actual Length | Actual Width | Thickness | Panel size charged for | Availability |
|--|--------------|-----------|------------------------|--------------|
| 2440mm | 1220mm | 12mm | 2400mmx1200mm | ex-stock |
| 3050mm | 1220mm | 12mm | 3000mmx1200mm | ex-stock |
| 2440mm | 1220mm | 18mm | 2400mmx1200mm | indent |
| 3050mm | 1220mm | 18mm | 3000mmx1200mm | ex-stock |
| Other thicknesses – 6mm, 9mm, 15mm, 22mm, 25mm, 30mm available by indent | | | | |

Tolerances

| Property | Nominal thickness (mm) | |
|--------------------------------------|---------------------------|---------|
| | ≤19mm | >19mm |
| Thickness | ± 0.2mm | ± 0.3mm |
| Length and width | ± 2.0 mm/m, max. ± 5.0 mm | |
| Squareness | ≤2.0 mm/m | |
| Edge straightness - length and width | ≤1.5 mm/m | |
| Tolerance on density within a board | ± 7.0% | |

Specifications

| Panel Thickness → | | 6mm | 9mm | 12mm | 15mm | 18mm | 22mm | 25mm | 30mm |
|--|--|--|--------|----------|--------|----------|--------|--------|--------|
| Availability → | | Indent | Indent | Ex-stock | Indent | Ex-stock | Indent | Indent | Indent |
| Density | Kg/m ³ | 820 | 770 | 750 | 740 | 740 | 710 | 710 | 710 |
| Moisture content | % | 6-10 | 6-10 | 6-10 | 6-10 | 6-10 | 6-10 | 6-10 | 6-10 |
| Thickness Swelling (24hr) | % | 30 | 17 | 15 | 12 | 12 | 10 | 10 | 10 |
| Internal bond | N/mm ² | 0.7 | 0.7 | 0.65 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Modulus of Rupture (Bending strength) | N/mm ² | 29 | 29 | 27 | 25 | 25 | 23 | 23 | 23 |
| Modulus of elasticity | N/mm ² | 3000 | 3000 | 2800 | 2500 | 2500 | 2300 | 2300 | 2300 |
| BCA Fire Hazard Group Number (As per BCA Volume 1, Specification C1.10a, Table 2) | Not currently available | Raw or painted panel* - BCA Fire Hazard Group 1 Veneered panel** - BCA Fire Hazard Group 2 **Refer to EWFA Fire Certificates for full range of species covered | | | | | | | |
| Formaldehyde content | EI certified - Perforator value according EN 120 Classification E1 : Maximum 8 mg formol by 100 gram dry board. | | | | | | | | |
| Forest certification | PEFC Certified – PEFC Chain of Custody number SGS-PEFC/COC-0113 | | | | | | | | |

Notes:

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BRIGGS VENEERS

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